ELOP CoMPASS™

Compact Multi-Purpose Advanced Stabilized System - Maritime

General

CoMPASS is a leading member of Elbit Systems Electro-optics Elop's battle-proven CoMPASS. stabilized EO payload family, in service with leading customers worldwide:

- Highly stabilized, multi-sensor, electro-optical payload
- Optimized, qualified and certified for harsh marine environment
- Superb day and night ISTAR capabilities
- Single LRU integrating 5 major EO elements – thermal imager, color TV camera, laser rangefinder, laser designator and laser illuminator.

Applications

- Coastal patrol
- Electro-optic director
- Offshore patrol
- Navigation aid

Elbit Systems™ ISTAR

ELOP CoMPASS

Compact Multi-Purpose Advanced Stabilized System - Maritime

Main Advantages & Features

- TV and thermal imager
- Compact and lightweight design permits simple integration and easy maintenance
- Simple system integration to the ship BMS, radar and fire control system
- Advanced video enhancement package including: haze penetration, color restoration and sharpening features.
- Automatic tracking of dynamic targets; area scanning (with automatic patterns)
- Target designation and high repetition range measurements

Technical Data

System
- Diameter 15″
- Weight 38 Kg
- Angular coverage
  - Azimuth N x 360°
  - Elevation +85° to -35°
- Environmental conditions MIL-STD-810F

Day Channel (HD)
- Camera type Large format digital CCD color camera
- Field of View (FOV)
  - Narrow 0.6° x 0.45°
  - Wide 21.25° x 16°
  - SWFOV 25° x 19°

Thermal Imager
- FLIR Cooled 3rd generation 3-5 µm FPA with 640 x 512 pixels
- FOV

	FLIR A - TOPAZ	FLIR B - LOTUS
Wide	24° X 18°	26° X 21°
Medium	Continuous	6.5° x 5.25°
Narrow	0.8° X 0.6°	1.8° x 1.5°

Laser Sensors
- Laser Rangefinder (Eyesafe)
  - Wavelength 1.54 µm
  - Rate 1/5/10 pps
- Dual Wavelength Laser Target Designator & Rangefinder (LRFTD)
  - Transmitter Diode-pumped advanced technology
  - Wavelength 1.064 µm / 1.57 µm
  - Max pulse rate 20pps
- Laser target illuminator/pointer
  - Wavelength 830 nm (NVG compatible)

Interface Communications
- RS422
- MIL-STD-1553
- Ethernet

Video Output
- PAL, NTSC

Additional features
- Auto-tracker
- Picture In Picture (PIP)

Elbit Systems Ltd.
Advanced Technology Center, P.O.B 539, Haifa 31053, Israel
E-mail: istar@elbitsystems.com www.elbitsystems.com

Follow us on

The logo, brand, product, service, and process names appearing herein are the trademarks or service marks of Elbit Systems Ltd., its affiliated companies or, where applicable, of other respective holders.
© 2016. This brochure contains Elbit Systems and others proprietary information